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Music Production and Mixing Tips & Tricks

By Ian Waugh

What makes a pro recording pro? What is the "sound" that the pros get and how can you make your recordings sound more professional?

The simple answer is – there's no simple answer. But with careful listening and a little experience you can create excellent results with modest equipment.

Good mixing starts ear

The first and most important item of equipment is – who knows? Anyone? It's your ears! Sorry to tell you this, but listening to ten hours of Rave at 110dB will do nothing for them and you might as well give your mix to a turtle as try to mix with misused ears.

Listen to commercial recordings of mixes you like, analyse them, listen for the effects and get to know what constitutes the sort of sound you're after.

Mixing secrets

There's no hidden secret to getting a good sound, but if we had to sum up the secret of mixing in two words it would be this – EQ and compression. Okay that's three words.

These are probably the two most important tools used by professional producers. However, like any tools, if you don't know how to use them you'll be carving Habitat tables instead of Chippendale chairs.

That's where your ears and experience come in. Here we have assembled some production ideas, suggestions, tips and tricks but they can only be guidelines and need to be adapted to suit your material. There are no presets you can switch in to make a bad recording sound good. And if your original material has been poorly recorded not even Abbey Road could salvage your mix. But follow these suggestions and see how much your mixes improve.

Get the level right

You can't push the levels when recording digitally as you can when recording to tape but you still want to get as much signal into the system as possible. This means watching the levels very carefully for clipping, and recording at an even and constant level.

Some recording software lets you monitor and set the input level from within. Some expect you to use the soundcard's mixer while others have no facility for internally adjusting the input level and expect you to set this at source.

Monitors

Your ears are only as good as the monitors they listen to. DO NOT expect to produce a good, pro mix on tiny computer speakers. It may sound fine on a computer system, but try it on a hi fi, in a disco and through a car stereo.

Oddly enough, you don't necessarily need the most expensive Mic. Many top artists use what some might call "average" Mics because they work well and get the job done. You can spend a wad on a large diaphragm capacitor Mic (yes, they're good for vocals) if you have the lolly but check out dynamic Mics which are much more affordable and can be turned to several tasks.

Mixing MIDI and audio

One of the great things about computer-based recording is that the parts can so easily be changed, edited and processed. It's also so easy to combine MIDI and audio tracks and many musicians use a combination of sample loops, MIDI parts and audio recording.

Audio recordings are generally guitar and acoustic instruments such as the sax and vocals. Incidentally, the best way to record guitars is by sticking a Mic in front of its speakers. You can DI them and process them later and this may be cleaner but for a natural guitar sound a Miced amp is hard to beat.

It's not necessary to record drums live and, in fact, it's difficult to do and retain a modern sound. You can buy off-the-shelf MIDI drum riffs and audio drum loops, or program your own. The quality of the gear which makes drum noises these days is such that anyone with a good riff can sound like a pro.

Mixing MIDI

As MIDI and audio parts appear on the same screen in modern sequencers, it's very easy to arrange

them into a song. However, when you come to mix everything down there's another consideration. If you are recording to DAT you can simply route the audio and MIDI outputs through a mixer and into the DAT machine.

However, if you want to create a CD you must first convert the MIDI parts to audio data. The entire song can then be mixed to hard disk and burned to CD. Converting MIDI to audio can have another benefit and that's the ability to process the MIDI tracks using digital effects.

Effects

There are three positions for effects known as Master, Send and Insert. Use the Master for effects you want to apply to the entire mix. These will often be EQ, compression and reverb.

Although giving each channel its own Insert effects is kinda neat, each one uses a corresponding amount of CPU power. So if your computer is struggling and if you're using the same effect on more than one channel, make the effect a Send effect and route those channels to it.

Many pieces of software let you apply an effect Pre or Post fader. With Post fader, the amount of

sound sent to the effect is controlled by the fader. With Pre fader, the total volume level of the signal is sent. Post fader is the usual default and the one you'll use the most.

EQ

EQ is the most popular and the most over-used effect. Yes, it can be used to try to "fix a mix" but you can't make a silk purse out of a sow's ear as me Gran used to say and what she didn't know about mixing could be written in the margin of the book of honest politicians.

But before you start messing with EQ – or any other effect for that matter – make sure you have a decent set of speakers. Have we said that already? Oh, must be important, then.

There are plug-in effects such as MaxxBass which can psychoacoustically enhance the bass frequencies to make it sound better on smaller speakers. However, this is by no means the same as getting a good bass sound in the first place by observing good recording principles.

EQ can enhance a mix to add gloss, fairy dust, shimmer, sheen, a sweetener or whatever you want to call it to the final production. It can be done with enhancers and spectralisers, too, although these tend to mess with the harmonics which some producers don't like. However, don't dismiss them out of hand.

General EQ lore says that you should cut rather than boost. If a sound is top-heavy, the temptation is to boost the mid and bass ranges. But then what usually happens is you start boosting the upper range to compensate and you simply end up boosting everything and you're back where you started – only

louder!

The reason why cutting is preferred is that boosting also boosts the noise in the signal which is not what you want. Try it. Boost every frequency and listen to the result. If you think it sounds okay, fine. What do we know?

But when you're fiddling, do keep an eye on the output meter. Boosting EQ inevitably means increasing the gain and it's so-o-o-o easy to clip the output causing distortion which does not sound good.

Finally, check EQ changes to single tracks while playing back the entire piece. In other words, listen to the tracks in context with all the other tracks. It may sound fine in isolation but some frequencies may overlap onto other tracks making the piece frequency rich in some places and frequency poor in others.

Reverb

Reverb creates space. It gives the impression that a sound was recorded in a hall or canyon instead of the broom cupboard. Recording lore suggests that you record everything dry, with no reverb, so you can experiment with a choice later on. You can't un-reverb a track once it's been recorded.

The more reverb you apply, the further away sound will seem. To make a vocal up-front, use only enough reverb to take away the dryness. Vocals don't want to be mushy (lyrics can be mushy) so use

a bright reverb.

A common novice error is to swamp everything with different types of reverb. Don't – it sounds horrible!

Mixing down

You've done all the recordings, done the edits, applied the effects and now it's time to mix everything into a Big Number One Hit! Before you do, go home and have a good night's sleep. Have two. In fact, sleep for a week.

Yes, we know you're hot and raring to go but your ears are tired. They're falling asleep. Listen carefully and you might hear them snore!

There is a phenomenon known as ear fatigue and consistent exposure to sound, especially the same frequencies, makes our ears less responsive to them. Goes back to the bit about spending your life in a Rave club – you'll never be a master producer. If you try to mix after spending a day arranging, your ears will not be as responsive, so do them and your mix a favour by waiting at least a day.

Now, go forth and mix! And don't forget – you get better with practice. For more information about

mixing, pick up a FREE copy of Creating The Perfect Mix at

www.making-music.com

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You Can Learn To Read Guitar Sheet Music

By Tomas Labas

When you learn to read guitar sheet music it will be vital in expanding your guitar playing skills. Playing by ear will only get you so far and I am here to help take it to the next step. I will show you some basic tips and tricks to help you learn to read guitar sheet music and hopefully that will make you a better and more versatile guitar player.

I will now give you a list that will show you it is not hard to learn to read guitar sheet music.

Finding the right material

Most guitar books will have some basic sheet music and songs in the front pages that are designed to help you learn to read guitar sheet music quickly. Once you have basic guitar knowledge it is relatively easy to learn to read guitar sheet music. Start in small sections, one chord at a time. Use your guitar and play the chord out loud until you know it sounds correct.

Setting your self up

You will need to be in a small quite room where you will not be distracted by anything when you learn to read guitar sheet music. The only way to know when you get it right is if it sounds right and it can be difficult do that if you have screaming kids in the room with you or loud street noise outside.

Concentration is key and this will make it easier to learn how to read guitar sheet music. If you are distracted you may find a whole day can be wasted trying to focus.

Getting started

Remember what I said, be free from distraction! I cannot stress that enough. Now you're alone and it's quiet, find a music book with sheet music, try to pick something easy but also try to pick something you are familiar with. It makes it much easier to learn to read guitar sheet music if you are familiar with the tune. Make sure you are confident with one piece before you move on to the next.

Continue practicing

Continue to practice as much as you can, you will find that the better you get the more you will practice. When you enjoy something you will generally apply more time to it. Trying to learn to read guitar sheet music is easy as long as you practice! Once you have mastered reading sheet music then you can attempt to write you own music and that is where the real fun begins! It is essential to make sure you are confident or you will only have to go back and learn to read guitar sheet music all over again.

Article written by real guitar lover. Some of authors articles can be found at:

You Can Learn Guitar!

Articles to help you learn guitar quick.



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